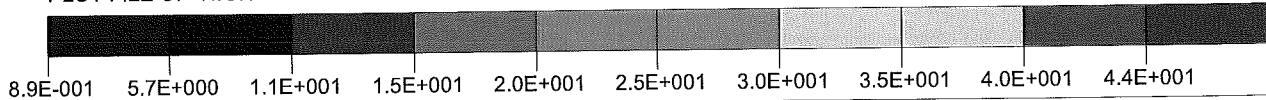



IDAHO MILK PRODUCTS
PM10 (W/P101A, NOT P101B) 24-HR 2ND HIGH VALUES - YEAR 1991

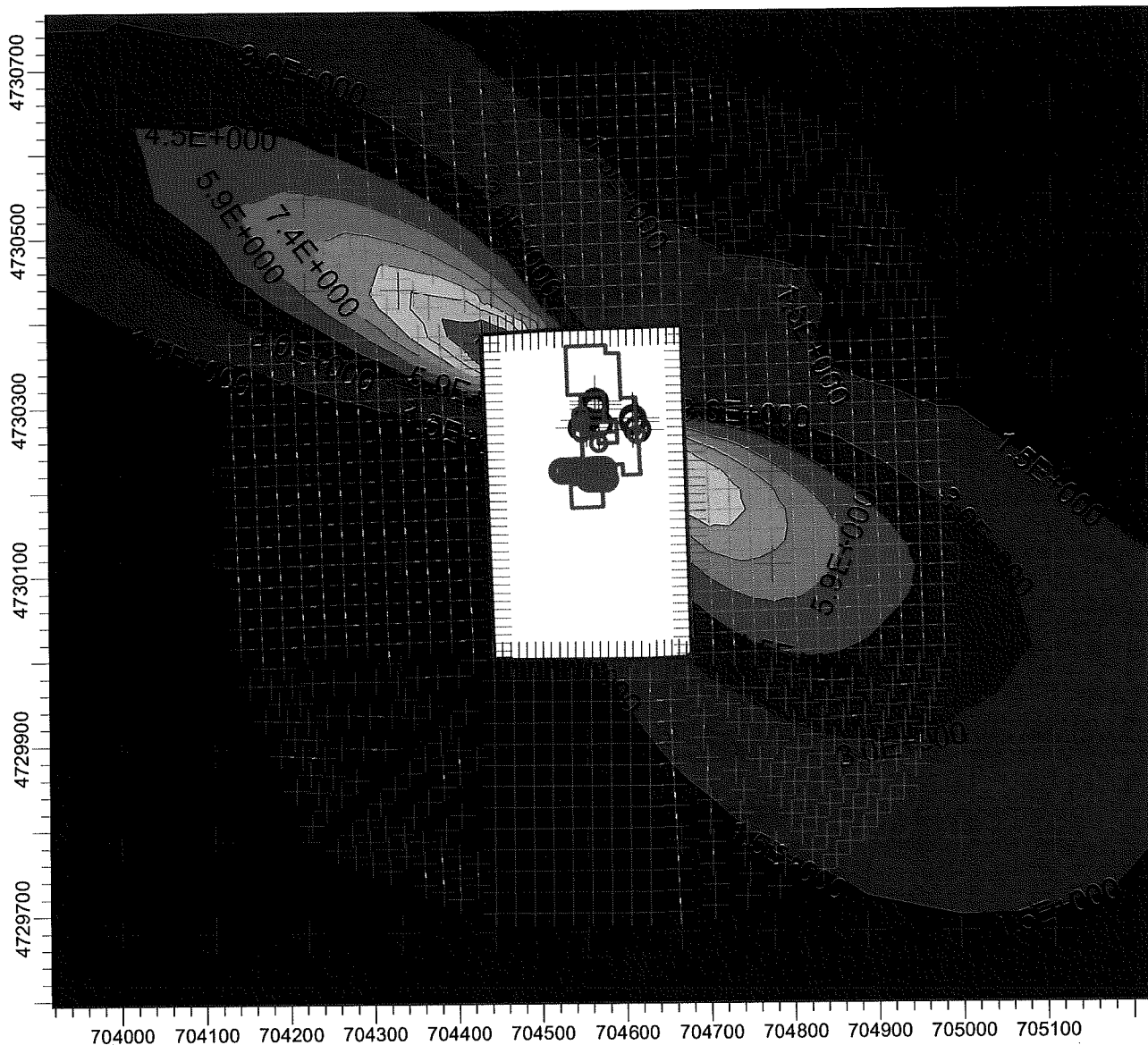


COMMENTS: Contaminant: PM10 (W/P101A, Not P101B) Met Data: 1991 Averaging Time: 24-Hr 2nd High Value	SOURCES: 9	COMPANY NAME: Millennium Science & Engineering, Inc.	
	RECEPTORS: 1514	MODELER: JP / TR	
	OUTPUT TYPE: Concentration	SCALE: 1:8,000 	
	MAX: 45.1747 ug/m^3	DATE: 10/22/2007	PROJECT NO.: B2886

PROJECT TITLE:

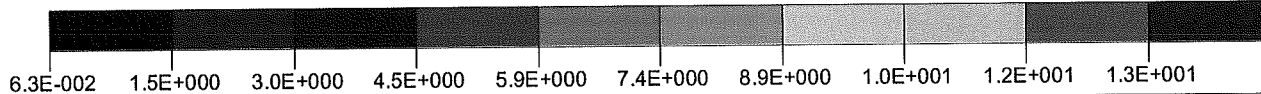
IDAHO MILK PRODUCTS


PM10 (W/P101A, NOT P101B) ANNUAL 1ST HIGH VALUES - YEAR 1991



PLOT FILE OF ANNUAL VALUES FOR SOURCE GROUP: ALL

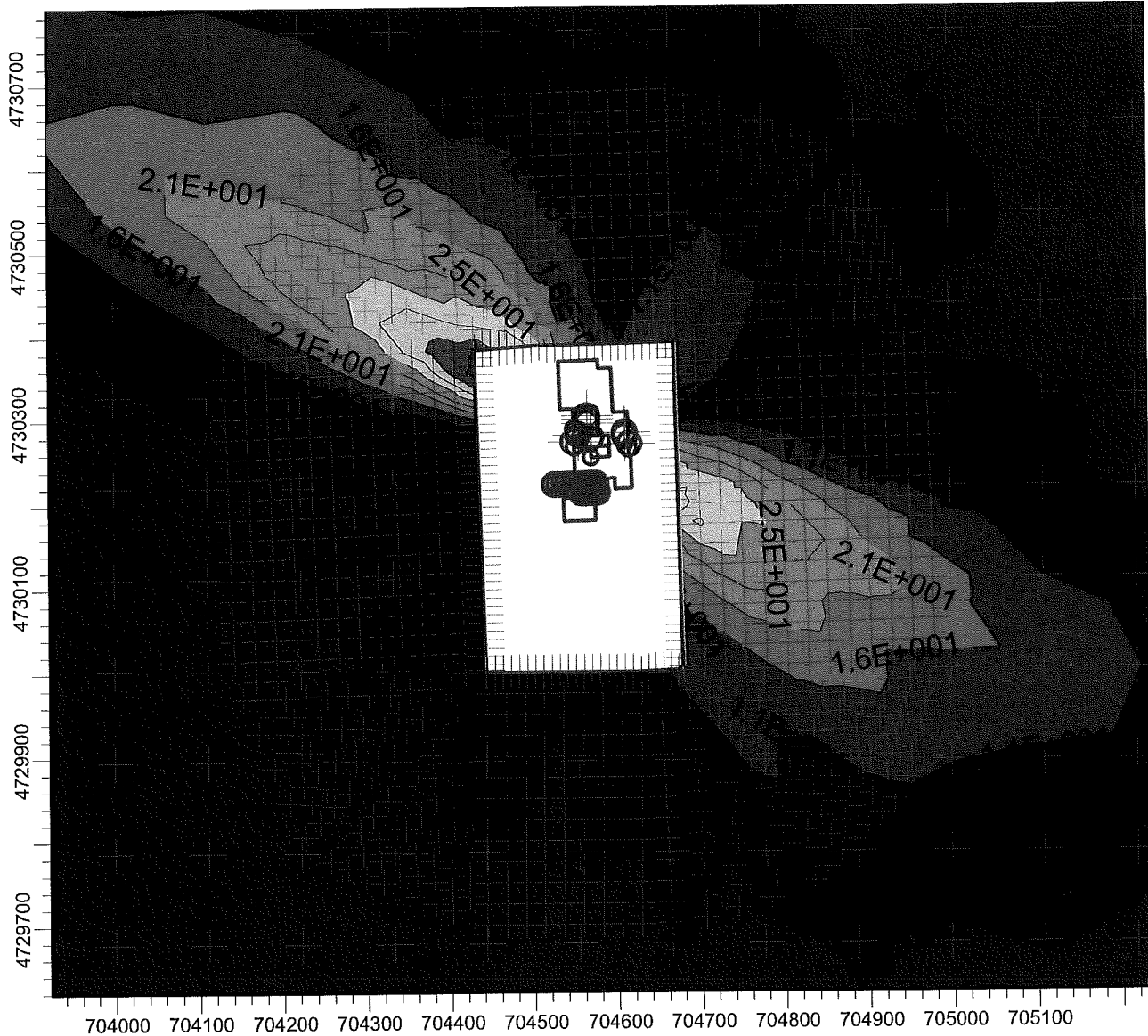
ug/m³



COMMENTS: Contaminant: PM10 (W/P101A, Not P101B) Met Data: 1991 Averaging Time: Annual 1st High Value	SOURCES: 9	COMPANY NAME: Millennium Science & Engineering, Inc.	
	RECEPTORS: 1514	MODELER: JP / TR	
	OUTPUT TYPE: Concentration	SCALE: 1:8,000 0  0.2 km	
	MAX: 13.53164 ug/m³	DATE: 10/22/2007	PROJECT NO.: B2886

PROJECT TITLE:


**IDAHO MILK PRODUCTS
PM10 (W/P101B, NOT P101A) 24-HR 2ND HIGH VALUES - YEAR 1991**



PLOT FILE OF HIGH 2ND HIGH 24-HR VALUES FOR SOURCE GROUP: ALL

ug/m³

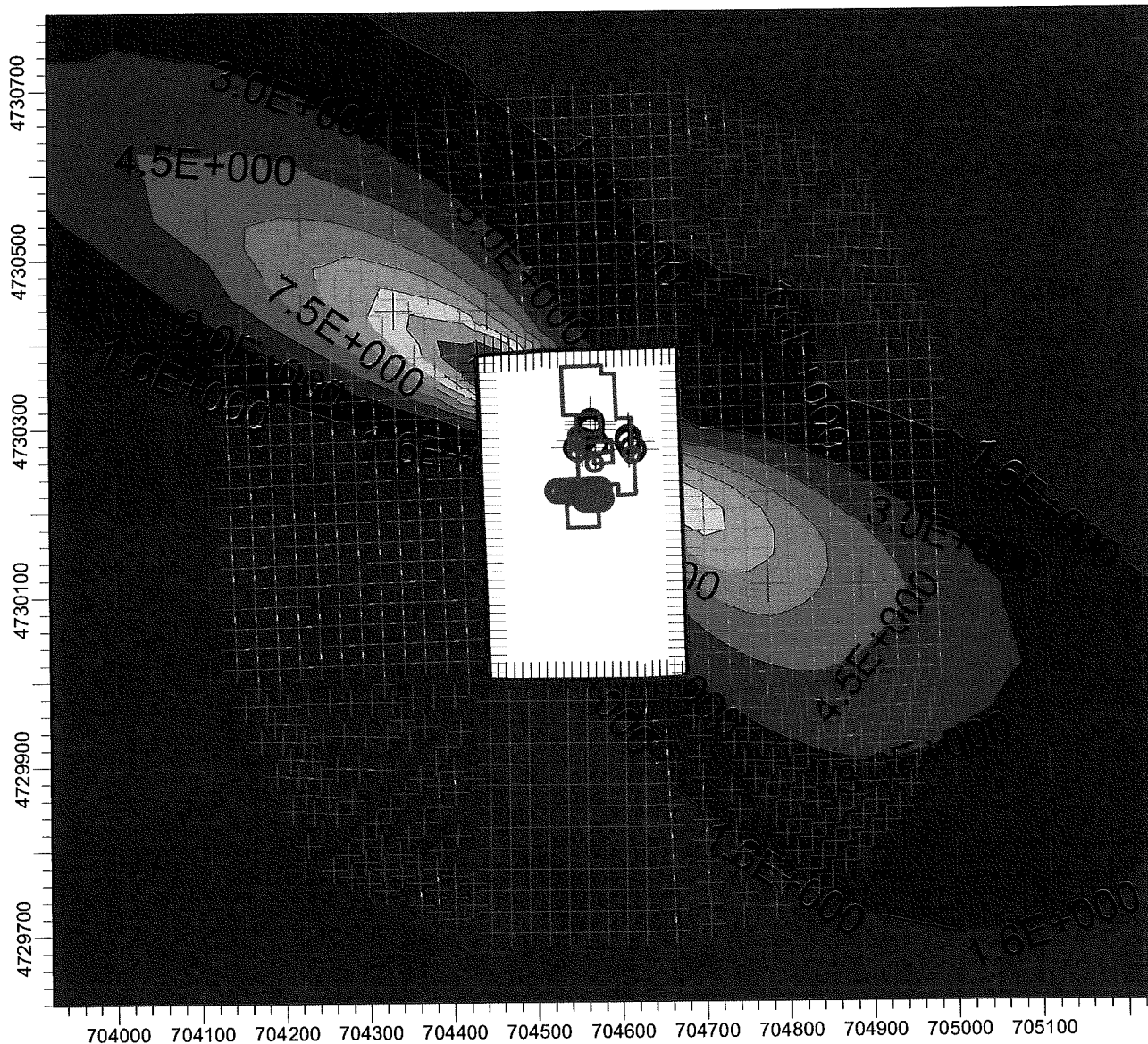
8.7E-001 5.8E+000 1.1E+001 1.6E+001 2.1E+001 2.5E+001 3.0E+001 3.5E+001 4.0E+001 4.5E+001

COMMENTS: Contaminant: PM10 (W/P101B, Not P101A) Met Data: 1991 Averaging Time: 24-Hr 2nd High Value	SOURCES: 9	COMPANY NAME: Millennium Science & Engineering, Inc.	
	RECEPTORS: 1514	MODELER: JP / TR	
	OUTPUT TYPE: Concentration	SCALE: 1:8,000 0  0.2 km	
	MAX: 46.45867 ug/m³	DATE: 10/22/2007	PROJECT NO.: B2886

PROJECT TITLE:

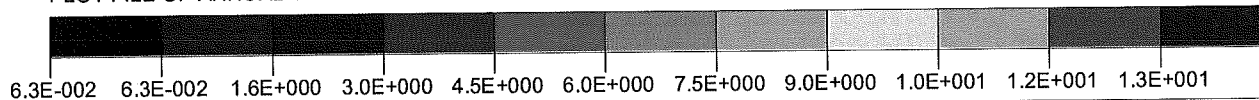
IDAHO MILK PRODUCTS

PM10 (W/P101B, NOT P101A) ANNUAL 1ST HIGH VALUES - YEAR 1991



PLOT FILE OF ANNUAL VALUES FOR SOURCE GROUP: ALL

ug/m³



COMMENTS:

Contaminant: PM10 (W/P101B,
Not P101A)
Met Data: 1991
Averaging Time: Annual
1st High Value

SOURCES:

9

RECEPTORS:

1514

OUTPUT TYPE:

Concentration

MAX:

13.78848 ug/m³

COMPANY NAME:

Millennium Science & Engineering, Inc.

MODELER:

JP / TR

SCALE:

1:8,000

0

0.2 km

DATE:

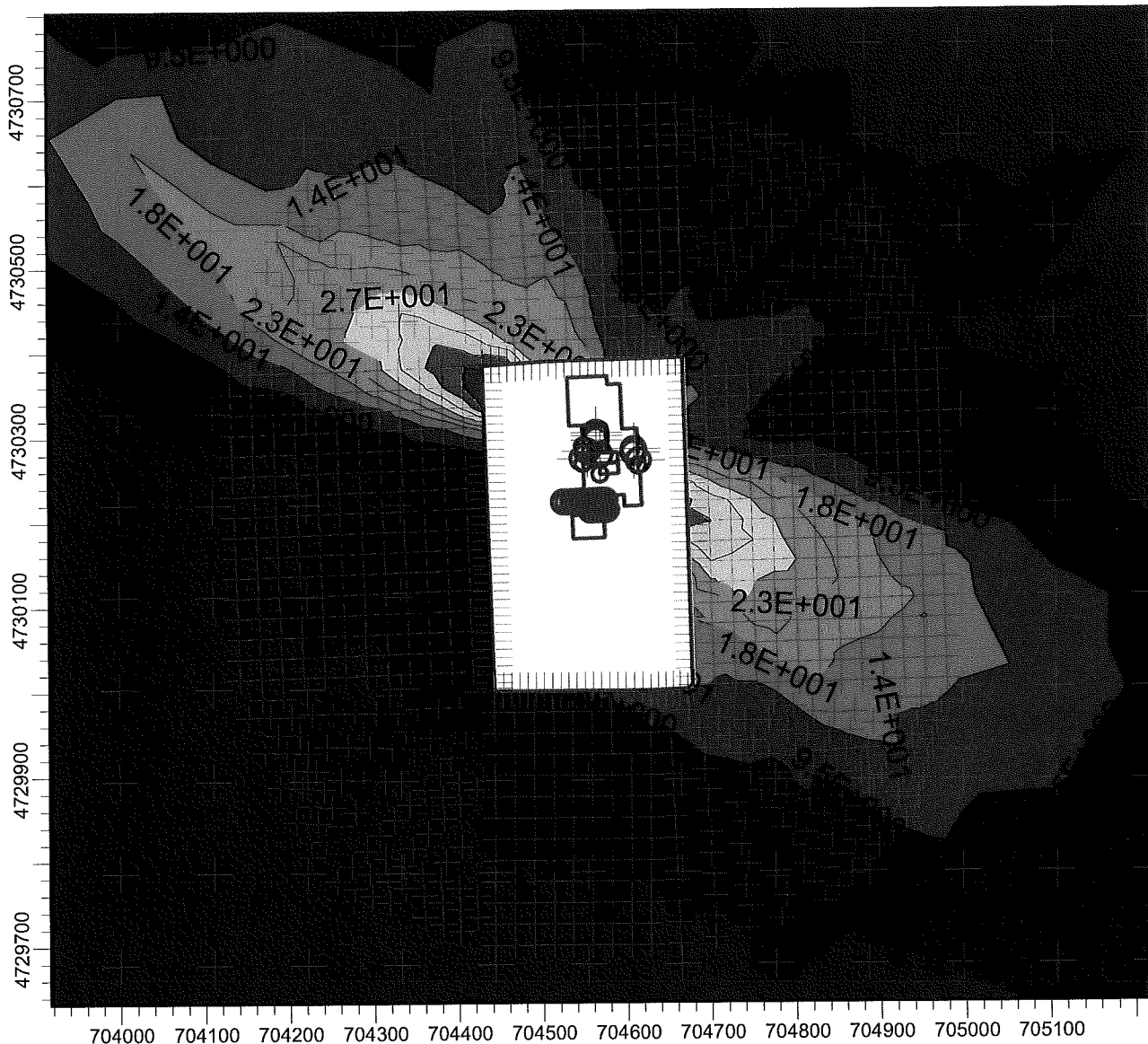
10/22/2007

PROJECT NO.:

B2886

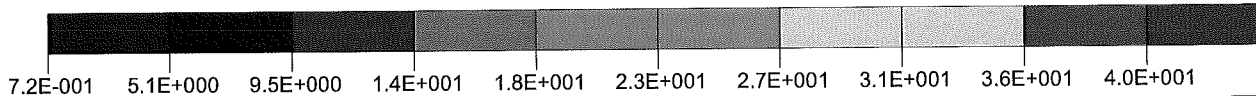
PROJECT TITLE:


**IDAHO MILK PRODUCTS
PM10 (W/P101A, NOT P101B) 24-HR 2ND HIGH VALUES - YEAR 1992**



PLOT FILE OF HIGH 2ND HIGH 24-HR VALUES FOR SOURCE GROUP: ALL

ug/m³

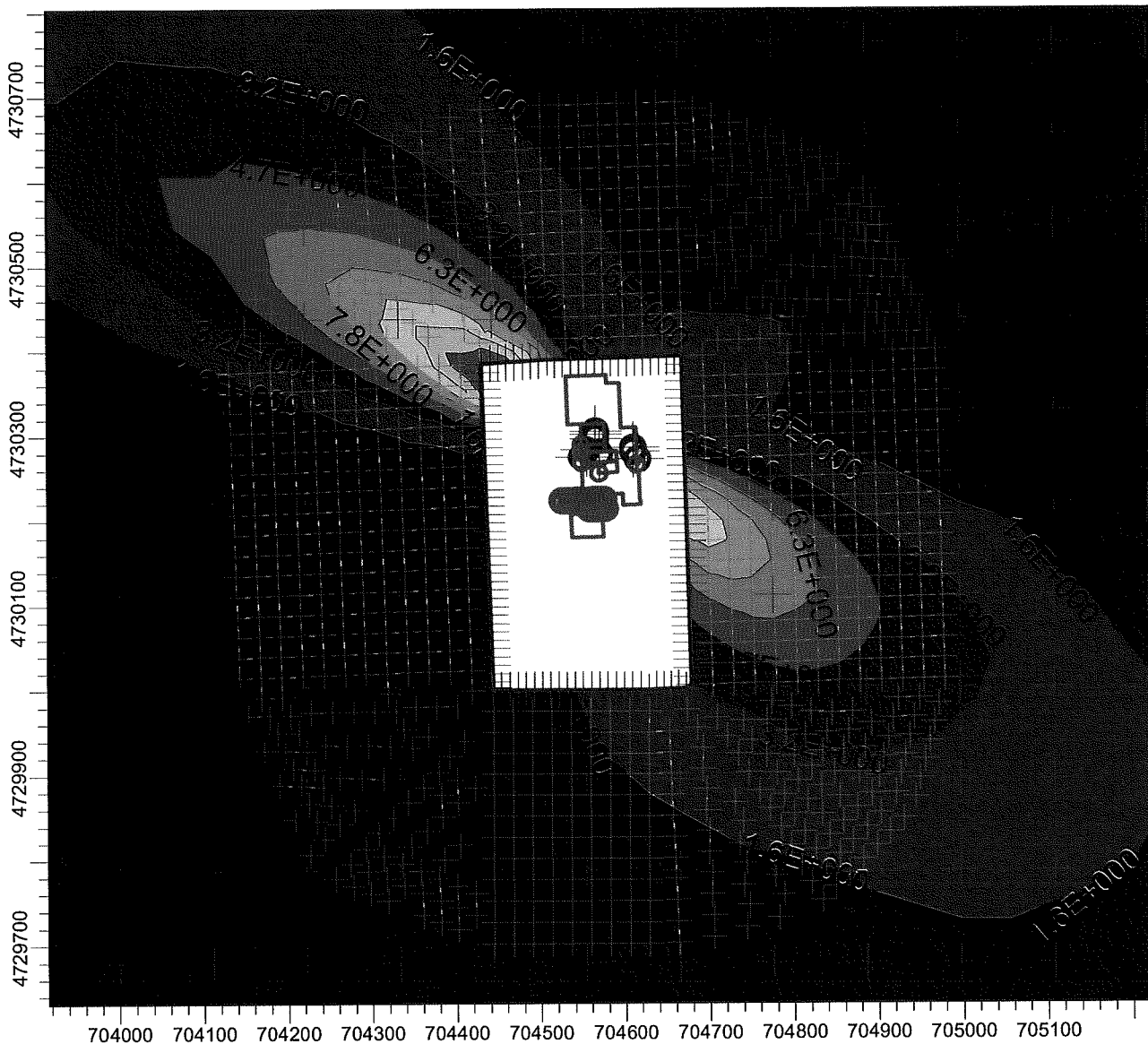


COMMENTS: Contaminant: PM10 (W/P101A, Not P101B) Met Data: 1992 Averaging Time: 24-Hr 2nd High Value	SOURCES: 9	COMPANY NAME: Millennium Science & Engineering, Inc.	
	RECEPTORS: 1514	MODELER: JP / TR	
	OUTPUT TYPE: Concentration	SCALE: 1:8,000 0  0.2 km	
	MAX: 43.82042 ug/m³	DATE: 10/22/2007	PROJECT NO.: B2886

PROJECT TITLE:

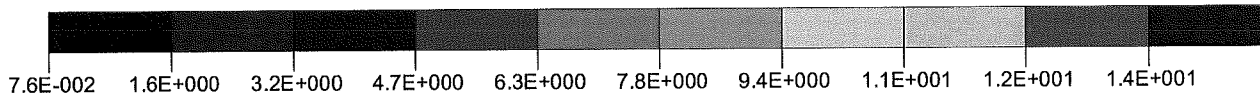
IDAHO MILK PRODUCTS

PM10 (W/P101A, NOT P101B) ANNUAL 1ST HIGH VALUES - YEAR 1992



PLOT FILE OF ANNUAL VALUES FOR SOURCE GROUP: ALL

ug/m³



7.6E-002 1.6E+000 3.2E+000 4.7E+000 6.3E+000 7.8E+000 9.4E+000 1.1E+001 1.2E+001 1.4E+001

COMMENTS:

Contaminant: PM10 (W/P101A,
Not P101B)
Met Data: 1992
Averaging Time: Annual
1st High Value

SOURCES:

9

COMPANY NAME:

Millennium Science & Engineering, Inc.

RECEPTORS:

1514

MODELER:

JP / TR

OUTPUT TYPE:

Concentration

SCALE:

1:8,000

0  0.2 km

MAX:

14.19167 ug/m³

DATE:

10/22/2007

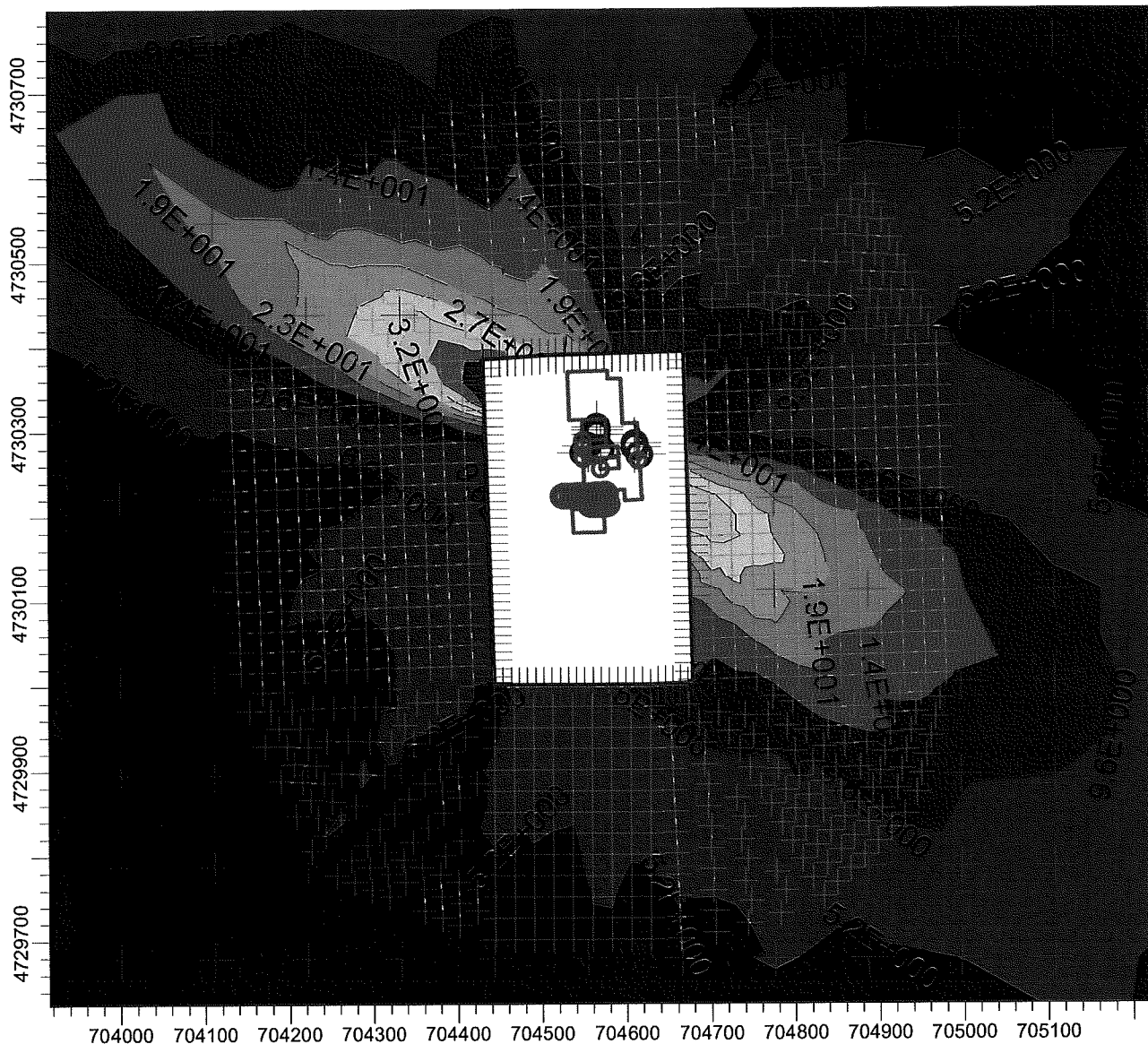
PROJECT NO.:

B2886

PROJECT TITLE:

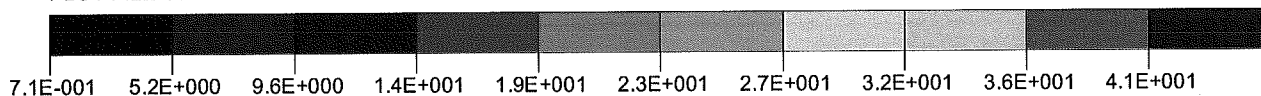
IDAHO MILK PRODUCTS


PM10 (W/P101B, NOT P101A) 24-HR 2ND HIGH VALUES - YEAR 1992



PLOT FILE OF HIGH 2ND HIGH 24-HR VALUES FOR SOURCE GROUP: ALL

ug/m³

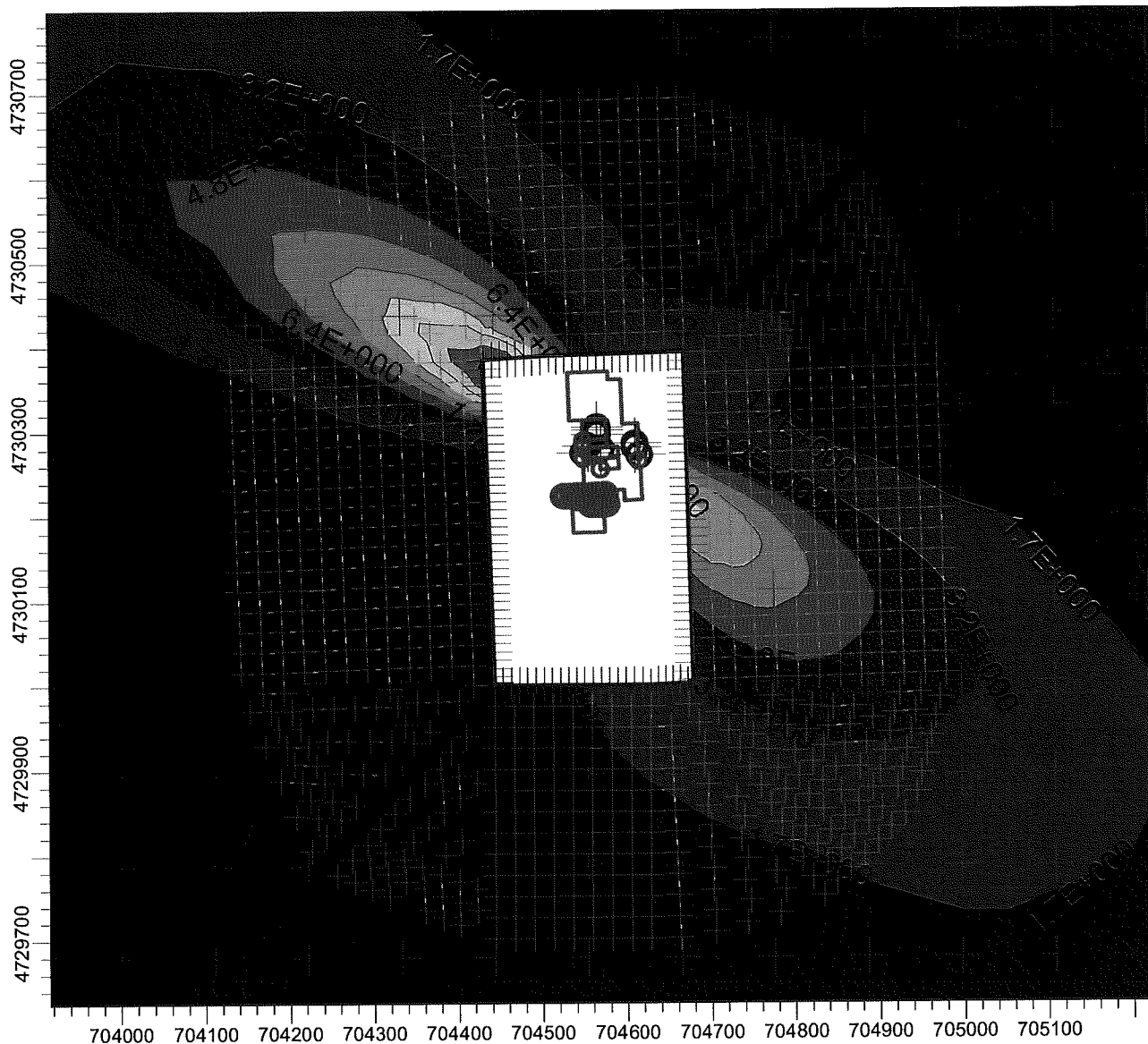


COMMENTS: Contaminant: PM10 (W/P101B, Not P101A) Met Data: 1992 Averaging Time: 24-Hr 2nd High Value	SOURCES: 9	COMPANY NAME: Millennium Science & Engineering, Inc.	
	RECEPTORS: 1514	MODELER: JP / TR	
	OUTPUT TYPE: Concentration	SCALE: 1:8,000 0  0.2 km	
	MAX: 44.85603 ug/m³	DATE: 10/22/2007	PROJECT NO.: B2886

PROJECT TITLE:

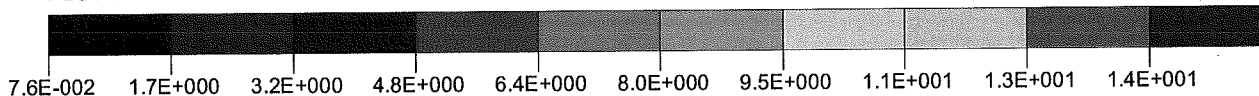
IDAHO MILK PRODUCTS

PM10 (W/P101B, NOT P101A) ANNUAL 1ST HIGH VALUES - YEAR 1992



PLOT FILE OF ANNUAL VALUES FOR SOURCE GROUP: ALL

ug/m³



COMMENTS:

Contaminant: PM10 (W/P101B,
Not P101A)
Met Data: 1992
Averaging Time: Annual
1st High Value

SOURCES:

9

RECEPTORS:

1514

OUTPUT TYPE:

Concentration

MAX:

14.49834 ug/m³

COMPANY NAME:

Millennium Science & Engineering, Inc.

MODELER:

JP / TR

SCALE:

1:8,000

0

0.2 km

DATE:

10/22/2007

PROJECT NO.:

B2886

Appendix 5

Permit to Construct Application



DEQ AIR QUALITY PROGRAM
 1410 N. Hilton, Boise, ID 83706
 For assistance, call the
Air Permit Hotline – 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 2
 02/13/07

Please see instructions on page 2 before filling out the form.

COMPANY NAME, FACILITY NAME, AND FACILITY ID NUMBER			
1. Company Name	Idaho Milk Products		
2. Facility Name	Milk Processing Plant	3. Facility ID No.	
4. Brief Project Description - One sentence or less	Construction of new milk processing plant.		
PERMIT APPLICATION TYPE			
5. <input checked="" type="checkbox"/> New Facility <input type="checkbox"/> New Source at Existing Facility <input type="checkbox"/> Unpermitted Existing Source <input type="checkbox"/> Modify Existing Source: Permit No.: _____ Date Issued: _____ <input type="checkbox"/> Required by Enforcement Action: Case No.: _____			
6. <input checked="" type="checkbox"/> Minor PTC <input type="checkbox"/> Major PTC			
FORMS INCLUDED			
Included	N/A	Forms	DEQ Verify
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form GI – Facility Information	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form EU0 – Emissions Units General	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form EU1 - Industrial Engine Information Please Specify number of forms attached: _____	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form EU2 - Nonmetallic Mineral Processing Plants Please Specify number of forms attached: _____	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form EU3 - Spray Paint Booth Information Please Specify number of forms attached: _____	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form EU4 - Cooling Tower Information Please Specify number of forms attached: _____	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form EU5 – Boiler Information Please Specify number of forms attached: _____	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form HMAP – Hot Mix Asphalt Plant Please Specify number of forms attached: _____	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form CBP - Concrete Batch Plant Please Specify number of forms attached: _____	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form BCE - Baghouses Control Equipment	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form SCE - Scrubbers Control Equipment	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Forms EI-CP1 - EI-CP4 - Emissions Inventory– criteria pollutants (Excel workbook, all 4 worksheets)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	PP – Plot Plan	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Forms MI1 – MI4 – Modeling (Excel workbook, all 4 worksheets)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form FRA – Federal Regulation Applicability	<input type="checkbox"/>

DEQ USE ONLY	
Date Received	
<div>RECEIVED</div> <div>OCT 23 2007</div> <div>Department of Environmental Quality State Air Program</div>	
Project Number	
Payment / Fees Included? Yes <input type="checkbox"/> No <input type="checkbox"/>	
Check Number	



DEQ AIR QUALITY PROGRAM
1410 N. Hilton, Boise, ID 83706
For assistance, call the
Air Permit Hotline – 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 3
03/26/07

Please see instructions on page 2 before filling out the form.

All information is required. If information is missing, the application will not be processed.

IDENTIFICATION

1. Company Name	Idaho Milk Products, Inc.
2. Facility Name (if different than #1)	
3. Facility I.D. No.	
4. Brief Project Description:	Milk Processing Plant

FACILITY INFORMATION

5. Owned/operated by: (√ if applicable)	<input type="checkbox"/> Federal government <input type="checkbox"/> County government <input type="checkbox"/> State government <input type="checkbox"/> City government
6. Primary Facility Permit Contact Person/Title	Tom Myers, President
7. Telephone Number and Email Address	(805) 341-1214 tysenter@aol.com
8. Alternate Facility Contact Person/Title	Aaron Baker, Project Manager
9. Telephone Number and Email Address	(801) 381-5850 abaker@big-d.com
10. Address to which permit should be sent	165 South 100 East
11. City/State/Zip	Jerome, Idaho 83338
12. Equipment Location Address (if different than #10)	
13. City/State/Zip	Jerome, Idaho 83338
14. Is the Equipment Portable?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
15. SIC Code(s) and NAISC Code	Primary SIC: 2023 Secondary SIC (if any): NAICS: 311514
16. Brief Business Description and Principal Product	The facility will process protein powders, lactose powders and cream.
17. Identify any adjacent or contiguous facility that this company owns and/or operates	None

PERMIT APPLICATION TYPE

18. Specify Reason for Application	<input checked="" type="checkbox"/> New Facility <input type="checkbox"/> New Source at Existing Facility <input type="checkbox"/> Unpermitted Existing Source <input type="checkbox"/> Modify Existing Source: Permit No.: _____ Date Issued: _____ <input type="checkbox"/> Permit Revision <input type="checkbox"/> Required by Enforcement Action: Case No.: _____
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CERTIFICATION

IN ACCORDANCE WITH IDAPA 58.01.01.123 (RULES FOR THE CONTROL OF AIR POLLUTION IN IDAHO), I CERTIFY BASED ON INFORMATION AND BELIEF FORMED AFTER REASONABLE INQUIRY, THE STATEMENTS AND INFORMATION IN THE DOCUMENT ARE TRUE, ACCURATE, AND COMPLETE.

19. Responsible Official's Name/Title	Tom Myers, President	
20. RESPONSIBLE OFFICIAL SIGNATURE		Date: Oct 17 07
21. <input checked="" type="checkbox"/> Check here to indicate you would like to review a draft permit prior to final issuance.		



DEQ AIR QUALITY PROGRAM
1410 N. Hilton, Boise, ID 83706
For assistance, call the
Air Permit Hotline – 1-877-5PERMIT

Emissions Unit - General **Form EU0**

PERMIT TO CONSTRUCT APPLICATION

Revision 2
02/14/07

Please see instructions on page 2 before filling out the form.

IDENTIFICATION							
Company Name: Idaho Milk Products		Facility Name: Milk Processing Plant			Facility ID No:		
Brief Project Description:		Construction of a new milk processing plant					
EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION							
1. Emissions Unit (EU) Name:		SKIM MILK DRYER					
2. EU ID Number:		P101					
3. EU Type:		<input checked="" type="checkbox"/> New Source <input type="checkbox"/> Unpermitted Existing Source <input type="checkbox"/> Modification to a Permitted Source -- Previous Permit #:			Date Issued:		
4. Manufacturer:		MAXON					
5. Model:		CROSSFIRE LOW NOX LINE BURNER					
6. Maximum Capacity:		40,000,000 BTU/HR					
7. Date of Construction:		2007-2008					
8. Date of Modification (if any)							
9. Is this a Controlled Emission Unit?		<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes If Yes, Complete the following section. If No, go to line 18.					
EMISSIONS CONTROL EQUIPMENT							
10. Control Equipment Name and ID:		BAGHOUSES / P101A & P101B					
11. Date of Installation:		2007-2008		12. Date of Modification (if any):			
13. Manufacturer and Model Number:		TBD: EQUIPMENT TO MEET PTC APPLICATION ASSUMPTIONS					
14. ID(s) of Emission Unit Controlled:		P101					
15. Is operating schedule different than emission units(s) involved?:		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
16. Does the manufacturer guarantee the control efficiency of the control equipment?		<input type="checkbox"/> Yes <input type="checkbox"/> No (If yes, attach and label manufacturer guarantee)					
Control Efficiency		Pollutant Controlled					
		PM	PM10	SO ₂	NOx	VOC	CO
		99.00%					
17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.							
EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)							
18. Actual Operation		8,760 HOURS/YEAR					
19. Maximum Operation		8,760 HOURS/YEAR					
REQUESTED LIMITS							
20. Are you requesting any permit limits?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If Yes, check all that apply below)					
<input type="checkbox"/> Operation Hour Limit(s):							
<input type="checkbox"/> Production Limit(s):							
<input type="checkbox"/> Material Usage Limit(s):							
<input type="checkbox"/> Limits Based on Stack Testing		Please attach all relevant stack testing summary reports					
<input type="checkbox"/> Other:							
21. Rationale for Requesting the Limit(s):							



DEQ AIR QUALITY PROGRAM
 1410 N. Hilton, Boise, ID 83706
 For assistance, call the
Air Permit Hotline – 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 2
 02/14/07

Please see instructions on page 2 before filling out the form.

IDENTIFICATION						
Company Name: Idaho Milk Products		Facility Name: Milk Processing Plant			Facility ID No:	
Brief Project Description:		Construction of new milk processing plant.				
EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION						
1. Emissions Unit (EU) Name:		SKIM MILK FLUID-BED				
2. EU ID Number:		P102				
3. EU Type:		<input checked="" type="checkbox"/> New Source <input type="checkbox"/> Unpermitted Existing Source <input type="checkbox"/> Modification to a Permitted Source -- Previous Permit #:			Date Issued:	
4. Manufacturer:		C/E/ROGERS				
5. Model:		SKIM MILK FLUID-BED				
6. Maximum Capacity:		16,900 LB/HR OF DRY SOLIDS				
7. Date of Construction:		2007-2008				
8. Date of Modification (if any)						
9. Is this a Controlled Emission Unit?		<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes If Yes, Complete the following section. If No, go to line 18.				
EMISSIONS CONTROL EQUIPMENT						
10. Control Equipment Name and ID:		FLUID-BED BAGHOUSE / P102				
11. Date of Installation:		2007-2008		12. Date of Modification (if any):		
13. Manufacturer and Model Number:		C/E/ROGERS, FLUID-BED BAGHOUSE				
14. ID(s) of Emission Unit Controlled:		P102				
15. Is operating schedule different than emission units(s) involved?:		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
16. Does the manufacturer guarantee the control efficiency of the control equipment?:		<input type="checkbox"/> Yes <input type="checkbox"/> No (If yes, attach and label manufacturer guarantee)				
		Pollutant Controlled				
		PM	PM10	SO ₂	NO _x	VOC
Control Efficiency		99.00%				
17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.						
EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)						
18. Actual Operation		8,760 HOURS/YEAR				
19. Maximum Operation		8,760 HOURS/YEAR				
REQUESTED LIMITS						
20. Are you requesting any permit limits?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If Yes, check all that apply below)				
<input type="checkbox"/> Operation Hour Limit(s):						
<input type="checkbox"/> Production Limit(s):						
<input type="checkbox"/> Material Usage Limit(s):						
<input type="checkbox"/> Limits Based on Stack Testing		Please attach all relevant stack testing summary reports				
<input type="checkbox"/> Other:						
21. Rationale for Requesting the Limit(s):						



DEQ AIR QUALITY PROGRAM
 1410 N. Hilton, Boise, ID 83706
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PERMIT TO CONSTRUCT APPLICATION

Revision 2
 02/14/07

Please see instructions on page 2 before filling out the form.

IDENTIFICATION						
Company Name: Idaho Milk Products		Facility Name: Milk Processing Plant			Facility ID No:	
Brief Project Description:		Construction of a new milk processing plant				
EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION						
1. Emissions Unit (EU) Name:	PERMEATE DRYER					
2. EU ID Number:	P103					
3. EU Type:	<input checked="" type="checkbox"/> New Source <input type="checkbox"/> Unpermitted Existing Source <input type="checkbox"/> Modification to a Permitted Source -- Previous Permit #:					Date Issued:
4. Manufacturer:	MAXON					
5. Model:	CROSSFIRE LOW NOX LINE BURNER					
6. Maximum Capacity:	12,000,000 BTU/HR					
7. Date of Construction:	2007-2008					
8. Date of Modification (if any)						
9. Is this a Controlled Emission Unit?	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes If Yes, Complete the following section. If No, go to line 18.					
EMISSIONS CONTROL EQUIPMENT						
10. Control Equipment Name and ID:	SCRUBBER / P103					
11. Date of Installation:	2007-2008	12. Date of Modification (if any):				
13. Manufacturer and Model Number:	TBD: EQUIPMENT TO MEET PTC APPLICATION ASSUMPTIONS					
14. ID(s) of Emission Unit Controlled:	P103					
15. Is operating schedule different than emission units(s) involved?:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
16. Does the manufacturer guarantee the control efficiency of the control equipment?	<input type="checkbox"/> Yes <input type="checkbox"/> No (If yes, attach and label manufacturer guarantee)					
	Pollutant Controlled					
	PM	PM10	SO ₂	NOx	VOC	CO
Control Efficiency	73.00%					
17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.						
EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)						
18. Actual Operation	8,760 HOURS/YEAR					
19. Maximum Operation	8,760 HOURS/YEAR					
REQUESTED LIMITS						
20. Are you requesting any permit limits?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If Yes, check all that apply below)					
<input type="checkbox"/> Operation Hour Limit(s):						
<input type="checkbox"/> Production Limit(s):						
<input type="checkbox"/> Material Usage Limit(s):						
<input type="checkbox"/> Limits Based on Stack Testing	Please attach all relevant stack testing summary reports					
<input type="checkbox"/> Other:						
21. Rationale for Requesting the Limit(s):						



DEQ AIR QUALITY PROGRAM
1410 N. Hilton, Boise, ID 83706
For assistance, call the
Air Permit Hotline – 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 2
02/14/07

Please see instructions on page 2 before filling out the form.

IDENTIFICATION						
Company Name: Idaho Milk Products		Facility Name: Milk Processing Plant			Facility ID No:	
Brief Project Description:		Construction of new milk processing plant.				
EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION						
1. Emissions Unit (EU) Name:	PERMEATE FLUID-BED					
2. EU ID Number:	P104					
3. EU Type:	<input checked="" type="checkbox"/> New Source <input type="checkbox"/> Unpermitted Existing Source <input type="checkbox"/> Modification to a Permitted Source -- Previous Permit #:					Date Issued:
4. Manufacturer:	C/E/ROGERS					
5. Model:	PERMEATE FLUID-BED					
6. Maximum Capacity:	11,000 IL/HR DRY SOLIDS					
7. Date of Construction:	2007-2008					
8. Date of Modification (if any)						
9. Is this a Controlled Emission Unit?	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes If Yes, Complete the following section. If No, go to line 18.					
EMISSIONS CONTROL EQUIPMENT						
10. Control Equipment Name and ID:	FLUID-BED BAGHOUSE / P102					
11. Date of Installation:	2007-2008	12. Date of Modification (if any):				
13. Manufacturer and Model Number:	C/E/ROGERS, FLUID-BED BAGHOUSE					
14. ID(s) of Emission Unit Controlled:	P104					
15. Is operating schedule different than emission units(s) involved?:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
16. Does the manufacturer guarantee the control efficiency of the control equipment?	<input type="checkbox"/> Yes <input type="checkbox"/> No (If yes, attach and label manufacturer guarantee)					
	Pollutant Controlled					
	PM	PM10	SO ₂	NO _x	VOC	CO
Control Efficiency	99.80%					
17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.						
EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)						
18. Actual Operation	8,760 HOURS/YEAR					
19. Maximum Operation	8,760 HOURS/YEAR					
REQUESTED LIMITS						
20. Are you requesting any permit limits?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If Yes, check all that apply below)					
<input type="checkbox"/> Operation Hour Limit(s):						
<input type="checkbox"/> Production Limit(s):						
<input type="checkbox"/> Material Usage Limit(s):						
<input type="checkbox"/> Limits Based on Stack Testing	Please attach all relevant stack testing summary reports					
<input type="checkbox"/> Other:						
21. Rationale for Requesting the Limit(s):						



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PERMIT TO CONSTRUCT APPLICATION

Revision 2
02/14/07

Please see instructions on page 2 before filling out the form.

IDENTIFICATION						
Company Name: Idaho Milk Products		Facility Name: Milk Processing Plant			Facility ID No:	
Brief Project Description:		Construction of new milk processing plant.				
EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION						
1. Emissions Unit (EU) Name:		PERMEATE POWDER RECEIVING				
2. EU ID Number:		P105				
3. EU Type:		<input checked="" type="checkbox"/> New Source <input type="checkbox"/> Unpermitted Existing Source <input type="checkbox"/> Modification to a Permitted Source -- Previous Permit #:			Date Issued:	
4. Manufacturer:		C/E/ROGERS				
5. Model:		PERMEATE POWDER RECEIVING				
6. Maximum Capacity:						
7. Date of Construction:		2007-2008				
8. Date of Modification (if any)						
9. Is this a Controlled Emission Unit?		<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes If Yes, Complete the following section. If No, go to line 18.				
EMISSIONS CONTROL EQUIPMENT						
10. Control Equipment Name and ID:		BAGHOUSES / P105				
11. Date of Installation:		2007-2008		12. Date of Modification (if any):		
13. Manufacturer and Model Number:		C/E/ROGERS, PERMEATE POWDER RECEIVING BAGHOUSE				
14. ID(s) of Emission Unit Controlled:		P105				
15. Is operating schedule different than emission units(s) involved?:		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
16. Does the manufacturer guarantee the control efficiency of the control equipment?		<input type="checkbox"/> Yes <input type="checkbox"/> No (If yes, attach and label manufacturer guarantee)				
		Pollutant Controlled				
		PM	PM10	SO ₂	NO _x	VOC
Control Efficiency		99.999%				
17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.						
EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)						
18. Actual Operation		8,760 HOURS/YEAR				
19. Maximum Operation		8,760 HOURS/YEAR				
REQUESTED LIMITS						
20. Are you requesting any permit limits?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If Yes, check all that apply below)				
<input type="checkbox"/> Operation Hour Limit(s):						
<input type="checkbox"/> Production Limit(s):						
<input type="checkbox"/> Material Usage Limit(s):						
<input type="checkbox"/> Limits Based on Stack Testing		Please attach all relevant stack testing summary reports				
<input type="checkbox"/> Other:						
21. Rationale for Requesting the Limit(s):						



DEQ AIR QUALITY PROGRAM
 1410 N. Hilton, Boise, ID 83706
 For assistance, call the
Air Permit Hotline – 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 2
 02/14/07

Please see instructions on page 2 before filling out the form.

IDENTIFICATION						
Company Name: Idaho Milk Products		Facility Name: Milk Processing Plant			Facility ID No:	
Brief Project Description:		Construction of new milk processing plant.				
EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION						
1. Emissions Unit (EU) Name:		BOILER #1				
2. EU ID Number:		P106				
3. EU Type:		<input checked="" type="checkbox"/> New Source <input type="checkbox"/> Unpermitted Existing Source <input type="checkbox"/> Modification to a Permitted Source -- Previous Permit #:			Date Issued:	
4. Manufacturer:		SUPERIOR BOILER WORKS, INC.				
5. Model:		SUPER SEMIINOLE 4000 (OR EQUIVALENT)				
6. Maximum Capacity:		33,475,000 BTU/HR				
7. Date of Construction:		2007-2008				
8. Date of Modification (if any)						
9. Is this a Controlled Emission Unit?		<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If Yes, Complete the following section. If No, go to line 18.				
EMISSIONS CONTROL EQUIPMENT						
10. Control Equipment Name and ID:						
11. Date of Installation:		12. Date of Modification (if any):				
13. Manufacturer and Model Number:						
14. ID(s) of Emission Unit Controlled:						
15. Is operating schedule different than emission units(s) involved?:		<input type="checkbox"/> Yes <input type="checkbox"/> No				
16. Does the manufacturer guarantee the control efficiency of the control equipment?		<input type="checkbox"/> Yes <input type="checkbox"/> No (If yes, attach and label manufacturer guarantee)				
Control Efficiency		Pollutant Controlled				
		PM	PM10	SO ₂	NOx	VOC
17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.						
EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)						
18. Actual Operation		8,760 HOURS/YEAR				
19. Maximum Operation		8,760 HOURS/YEAR				
REQUESTED LIMITS						
20. Are you requesting any permit limits?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If Yes, check all that apply below)				
<input type="checkbox"/> Operation Hour Limit(s):						
<input type="checkbox"/> Production Limit(s):						
<input type="checkbox"/> Material Usage Limit(s):						
<input type="checkbox"/> Limits Based on Stack Testing		Please attach all relevant stack testing summary reports				
<input type="checkbox"/> Other:						
21. Rationale for Requesting the Limit(s):						



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PERMIT TO CONSTRUCT APPLICATION

Revision 2
 02/14/07

Please see instructions on page 2 before filling out the form.

IDENTIFICATION							
Company Name: Idaho Milk Products		Facility Name: Milk Processing Plant			Facility ID No:		
Brief Project Description:		Construction of new milk processing plant.					
EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION							
1. Emissions Unit (EU) Name:	BOILER #2						
2. EU ID Number:	P107						
3. EU Type:	<input checked="" type="checkbox"/> New Source <input type="checkbox"/> Unpermitted Existing Source <input type="checkbox"/> Modification to a Permitted Source -- Previous Permit #: Date Issued:						
4. Manufacturer:	SUPERIOR BOILER WORKS, INC.						
5. Model:	SUPER SEMIINOLE 4000 (OR EQUIVALENT)						
6. Maximum Capacity:	33,475,000 BTU/HR						
7. Date of Construction:	2007-2008						
8. Date of Modification (if any)							
9. Is this a Controlled Emission Unit?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If Yes, Complete the following section. If No, go to line 18.						
EMISSIONS CONTROL EQUIPMENT							
10. Control Equipment Name and ID:							
11. Date of Installation:		12. Date of Modification (if any):					
13. Manufacturer and Model Number:							
14. ID(s) of Emission Unit Controlled:							
15. Is operating schedule different than emission units(s) involved?:		<input type="checkbox"/> Yes <input type="checkbox"/> No					
16. Does the manufacturer guarantee the control efficiency of the control equipment?		<input type="checkbox"/> Yes <input type="checkbox"/> No (If yes, attach and label manufacturer guarantee)					
		Pollutant Controlled					
Control Efficiency		PM	PM10	SO ₂	NOx	VOC	CO
17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.							
EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)							
18. Actual Operation		8,760 HOURS/YEAR					
19. Maximum Operation		8,760 HOURS/YEAR					
REQUESTED LIMITS							
20. Are you requesting any permit limits?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If Yes, check all that apply below)					
<input type="checkbox"/> Operation Hour Limit(s):							
<input type="checkbox"/> Production Limit(s):							
<input type="checkbox"/> Material Usage Limit(s):							
<input type="checkbox"/> Limits Based on Stack Testing		Please attach all relevant stack testing summary reports					
<input type="checkbox"/> Other:							
21. Rationale for Requesting the Limit(s):							



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Emissions Unit - General **Form EU0**

PERMIT TO CONSTRUCT APPLICATION

Revision 3
03/27/07

Please see instructions on page 2 before filling out the form.

IDENTIFICATION						
Company Name: Idaho Milk Products		Facility Name: Milk Processing Plant			Facility ID No:	
Brief Project Description:		Construction of new milk processing plant				
EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION						
1. Emissions Unit (EU) Name:		EMERGENCY GENERATOR				
2. EU ID Number:		P108				
3. EU Type:		<input checked="" type="checkbox"/> New Source <input type="checkbox"/> Unpermitted Existing Source <input type="checkbox"/> Modification to a Permitted Source -- Previous Permit #: Date Issued:				
4. Manufacturer:		CUMMINS				
5. Model:		QST30-G5 NONROAD 2 (OR EQUIVALENT)				
6. Maximum Capacity:		1490 HP				
7. Date of Construction:		2007-2008				
8. Date of Modification (if any)						
9. Is this a Controlled Emission Unit?		<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If Yes, complete the following section. If No, go to line 18.				
EMISSIONS CONTROL EQUIPMENT						
10. Control Equipment Name and ID:						
11. Date of Installation:		12. Date of Modification (if any):				
13. Manufacturer and Model Number:						
14. ID(s) of Emission Unit Controlled:						
15. Is operating schedule different than emission units(s) involved?		<input type="checkbox"/> Yes <input type="checkbox"/> No				
16. Does the manufacturer guarantee the control efficiency of the control equipment?		<input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes, attach and label manufacturer guarantee)				
Control Efficiency		Pollutant Controlled				
		PM	PM10	SO ₂	NO _x	VOC
17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.						
EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)						
18. Actual Operation		1 hour/week				
19. Maximum Operation		500 HOURS/YEAR				
REQUESTED LIMITS						
20. Are you requesting any permit limits?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If Yes, check all that apply below)				
<input checked="" type="checkbox"/> Operation Hour Limit(s):		500 HOURS/YEAR				
<input type="checkbox"/> Production Limit(s):						
<input type="checkbox"/> Material Usage Limit(s):						
<input type="checkbox"/> Limits Based on Stack Testing		Please attach all relevant stack testing summary reports				
<input type="checkbox"/> Other:						
21. Rationale for Requesting the Limit(s):		Source is exempt				



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PERMIT TO CONSTRUCT APPLICATION

Revision 2
 02/13/07

Please see instructions on page 2 before filling out the form.

IDENTIFICATION				
Company Name: Idaho Milk Products		Facility Name: Milk Processing Plant		Facility ID No:
Brief Project Description:		Construction of a new milk processing plant		
EXEMPTION				
Please see IDAPA 58.01.01.222 for a list of industrial boilers that are exempt from Permit to Construct requirements.				
Boiler (EMISSION UNIT) DESCRIPTION AND SPECIFICATIONS				
1. Type of Request <input checked="" type="checkbox"/> New Unit <input type="checkbox"/> Unpermitted Existing Unit <input type="checkbox"/> Modification to a unit with Permit #:				
2. Use of Boiler: <input checked="" type="checkbox"/> % Used For Process <input type="checkbox"/> % Used For Space Heat <input type="checkbox"/> % Used For Generating Electricity <input type="checkbox"/> Other:				
3. Boiler ID Number: P106		4. Rated Capacity: <input checked="" type="checkbox"/> 33.48 Million British Thermal Units Per Hour (MMBtu/hr) <input type="checkbox"/> 1,000 Pounds Steam Per Hour (1,000 lb steam/hr)		
5. Construction Date: 2007-2008	6. Manufacturer: Superior		7. Model: Super Seminole 4000	
8. Date of Modification (if applicable):	9. Serial Number (if available):		10. Control Device (if any): Note: Attach applicable control equipment form(s)	
FUEL DESCRIPTION AND SPECIFICATIONS				
11. Fuel Type	<input type="checkbox"/> Diesel Fuel (#) (gal/hr)	<input checked="" type="checkbox"/> Natural Gas (cf/hr)	<input type="checkbox"/> Coal (unit: /hr)	<input type="checkbox"/> Other Fuels (unit: /hr)
12. Full Load Consumption Rate		32,819 scf/hr		
13. Actual Consumption Rate		32,819 scf/hr		
14. Fuel Heat Content (Btu/unit, LHV)		1,020 Btu/scf		
15. Sulfur Content wt%				
16. Ash Content wt%		N/A		
STEAM DESCRIPTION AND SPECIFICATIONS				
17. Steam Heat Content	NA	NA		
18. Steam Temperature (°F)	N/A	N/A		
19. Steam Pressure (psi)	N/A	N/A		
20. Steam Type	N/A	N/A	<input type="checkbox"/> Saturated <input type="checkbox"/> Superheated	<input type="checkbox"/> Saturated <input type="checkbox"/> Superheated
OPERATING LIMITS & SCHEDULE				
21. Imposed Operating Limits (hours/year, or gallons fuel/year, etc.):				
22. Operating Schedule (hours/day, months/year, etc.): 24 hr/day, 365 days/yr				



DEQ AIR QUALITY PROGRAM
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For assistance, call the
Air Permit Hotline – 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 2
02/13/07

Please see instructions on page 2 before filling out the form.

IDENTIFICATION				
Company Name: Idaho Milk Products		Facility Name: Milk Processing Plant		Facility ID No:
Brief Project Description:		Construction of a new milk processing plant		
EXEMPTION				
Please see IDAPA 58.01.01.222 for a list of industrial boilers that are exempt from Permit to Construct requirements.				
Boiler (EMISSION UNIT) DESCRIPTION AND SPECIFICATIONS				
1. Type of Request <input checked="" type="checkbox"/> New Unit <input type="checkbox"/> Unpermitted Existing Unit <input type="checkbox"/> Modification to a unit with Permit #:				
2. Use of Boiler: <input checked="" type="checkbox"/> % Used For Process <input type="checkbox"/> % Used For Space Heat <input type="checkbox"/> % Used For Generating Electricity <input type="checkbox"/> Other:				
3. Boiler ID Number: P107		4. Rated Capacity: <input checked="" type="checkbox"/> 33.48 Million British Thermal Units Per Hour (MMBtu/hr) <input type="checkbox"/> 1,000 Pounds Steam Per Hour (1,000 lb steam/hr)		
5. Construction Date: 2007-2008		6. Manufacturer: Superior		7. Model: Super Seminole 4000
8. Date of Modification (if applicable):		9. Serial Number (if available):		10. Control Device (if any): Note: Attach applicable control equipment form(s)
FUEL DESCRIPTION AND SPECIFICATIONS				
11. Fuel Type	<input type="checkbox"/> Diesel Fuel (#) (gal/hr)	<input checked="" type="checkbox"/> Natural Gas (cf/hr)	<input type="checkbox"/> Coal (unit: /hr)	<input type="checkbox"/> Other Fuels (unit: /hr)
12. Full Load Consumption Rate		32,819 scf/hr		
13. Actual Consumption Rate		32,819 scf/hr		
14. Fuel Heat Content (Btu/unit, LHV)		1,020 Btu/scf		
15. Sulfur Content wt%				
16. Ash Content wt%		N/A		
STEAM DESCRIPTION AND SPECIFICATIONS				
17. Steam Heat Content	NA	NA		
18. Steam Temperature (°F)	N/A	N/A		
19. Steam Pressure (psi)	N/A	N/A		
20. Steam Type	N/A	N/A	<input type="checkbox"/> Saturated <input type="checkbox"/> Superheated	<input type="checkbox"/> Saturated <input type="checkbox"/> Superheated
OPERATING LIMITS & SCHEDULE				
21. Imposed Operating Limits (hours/year, or gallons fuel/year, etc.):				
22. Operating Schedule (hours/day, months/year, etc.): 24 hr/day, 365 days/yr				



DEQ AIR QUALITY PROGRAM
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Air Permit Hotline – 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 2
 02/13/07

Please see instructions on page 2 before filling out the form.

IDENTIFICATION										
Company Name: Idaho Milk Products				Facility Name: Milk Processing Plant				Facility ID #:		
Brief Project Description:										
IDENTIFICATION				BAGHOUSE			BAGS			
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
Emission Unit	EU ID No.	CE ID No.	Stack ID No.	Baghouse Manufacturer	Baghouse Model No.	Type	Type	Size (Dia x Ht)	No. of Bags	Air to Cloth
Skim Milk Dryer Baghouses	P101	P101A	P101A	TBD	TBD	TBD	TBD	TBD	TBD	TBD
" " " "	"	P101B	P101B	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Skim Milk Fluid-Bed Baghouse	P102	P102	P102	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Permeate Fluid-Bed Baghouse	P104	P104	P104	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Permeate Powder Receiving Baghouse	P105	P105	P105	TBD	TBD	TBD	TBD	TBD	TBD	TBD

PERMIT TO CONSTRUCT APPLICATION

Revision 3
03/26/07[illegible]



DEQ AIR QUALITY PROGRAM
1410 N. Hilton, Boise, ID 83706
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PERMIT TO CONSTRUCT APPLICATION

Revision 2
2/14/2007

Company Name: Idaho Milk Products

Milk Processing Plant

Facility Name:

Facility ID No.:

Brief Project Description: Construction of a new milk processing plant.

Please see instructions on next page before filling out the form.

SUMMARY OF FACILITY WIDE EMISSION RATES FOR CRITERIA POLLUTANTS - POINT SOURCES

3.

1.	2.	PM ₁₀		SO ₂		NO _x		CO		VOC		Lead	
Emissions units	Stack ID	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr
Point Source(s)													
Skim Milk Dryer (P101)	P101	7.90	34.60	0.02	0.10	1.80	8.00	14.90	65.20	0.22	0.90	0.00	0.00
Skim Milk Fluid-Bed (P102)	P102	0.78	3.40										
Permeate Dryer Scrubber (P103)	P103	7.01	30.68	0.01	0.03	0.60	2.40	4.50	19.60	0.06	0.30	0.00	0.00
Permeate Fluid-Bed (P104)	P104	1.97	8.60										
Permeate Powder Receiver (P105)	P105	0.05	0.20										
Boiler #1 & #2 (P106 & P107)	P106/P107	0.25	1.10	0.02	0.10	3.28	14.40	2.76	12.10	0.18	0.80	0.00	0.00
Emergency Generator	P108	0.62	0.20	0.36	0.10	0.97	4.30	2.20	0.50				
name of the emissions unit10													
name of the emissions unit11													
name of the emissions unit12													
name of the emissions unit13													
name of the emissions unit14													
name of the emissions unit15													
name of the emissions unit16													
name of the emissions unit17													
name of the emissions unit18													
name of the emissions unit19													
name of the emissions unit20													
name of the emissions unit21													
(insert more rows as needed)													
Total		18.57	78.78	0.41	0.33	6.65	29.10	24.36	97.40	0.46	2.00	0.00	0.00



DEQ AIR QUALITY PROGRAM
1410 N. Hilton, Boise, ID 83706
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Hotline - 877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 1
1/11/2007

Company Name:	Idaho Milk Products
---------------	---------------------

Facility Name:

Milk Processing Plant

Facility ID No.:

Brief Project Description:

Construction of a new milk processing plant.

Please see instructions on next page before filling out the form.

SUMMARY OF FACILITY WIDE EMISSION RATES FOR CRITERIA POLLUTANTS - FUGITIVE SOURCES

[illegible]



DEQ AIR QUALITY PROGRAM
1410 N. Hilton, Boise, ID 83706
For assistance, call the Air Permit
Hotline - 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 2
2/14/2007

Please see instructions on next page before filling out the form.

Company Name: Idaho Milk Products

Facility Name: Milk Processing Plant

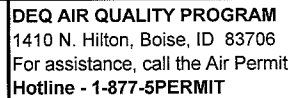
Facility ID No.:

Brief Project Description: Construction of a new milk processing plant.

SUMMARY OF EMISSIONS INCREASE (PROPOSED PTE - PREVIOUSLY MODELED PTE) - POINT SOURCES

3.

1. Emissions units	2. Stack ID	PM ₁₀		SO ₂		NO _x		CO		VOC		Lead	
		lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr
Point Source(s)													
Skim Milk Dryer (P101)	P101	7.90	34.60	0.02	0.10	1.80	8.00	14.90	65.20	0.22	0.90	0.00	0.00
Skim Milk Fluid-Bed (P102)	P102	0.78	3.40										
Permeate Dryer Scrubber (P103)	P103	7.01	30.68	0.01	0.03	0.60	2.40	4.50	19.60	0.06	0.30	0.00	0.00
Permeate Fluid-Bed (P104)	P104	1.97	8.60										
Permeate Powder Receiver (P105)	P105	0.05	0.20										
Boiler #1 & #2 (P106 & P107)	P106/P107	0.25	1.10	0.02	0.10	3.28	14.40	2.76	12.10	0.18	0.80	0.00	0.00
Emergency Generator	P108	0.62	0.20	0.36	0.10	0.97	4.30	2.20	0.50				
name of the emissions unit10													
name of the emissions unit11													
name of the emissions unit12													
name of the emissions unit13													
name of the emissions unit14													
name of the emissions unit15													
name of the emissions unit16													
name of the emissions unit17													
name of the emissions unit18													
name of the emissions unit19													
name of the emissions unit20													
name of the emissions unit21													
(insert more rows as needed)													
Total		18.57	78.78	0.41	0.33	6.65	29.10	24.36	97.40	0.46	2.00	0.00	0.00

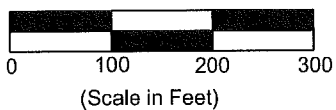
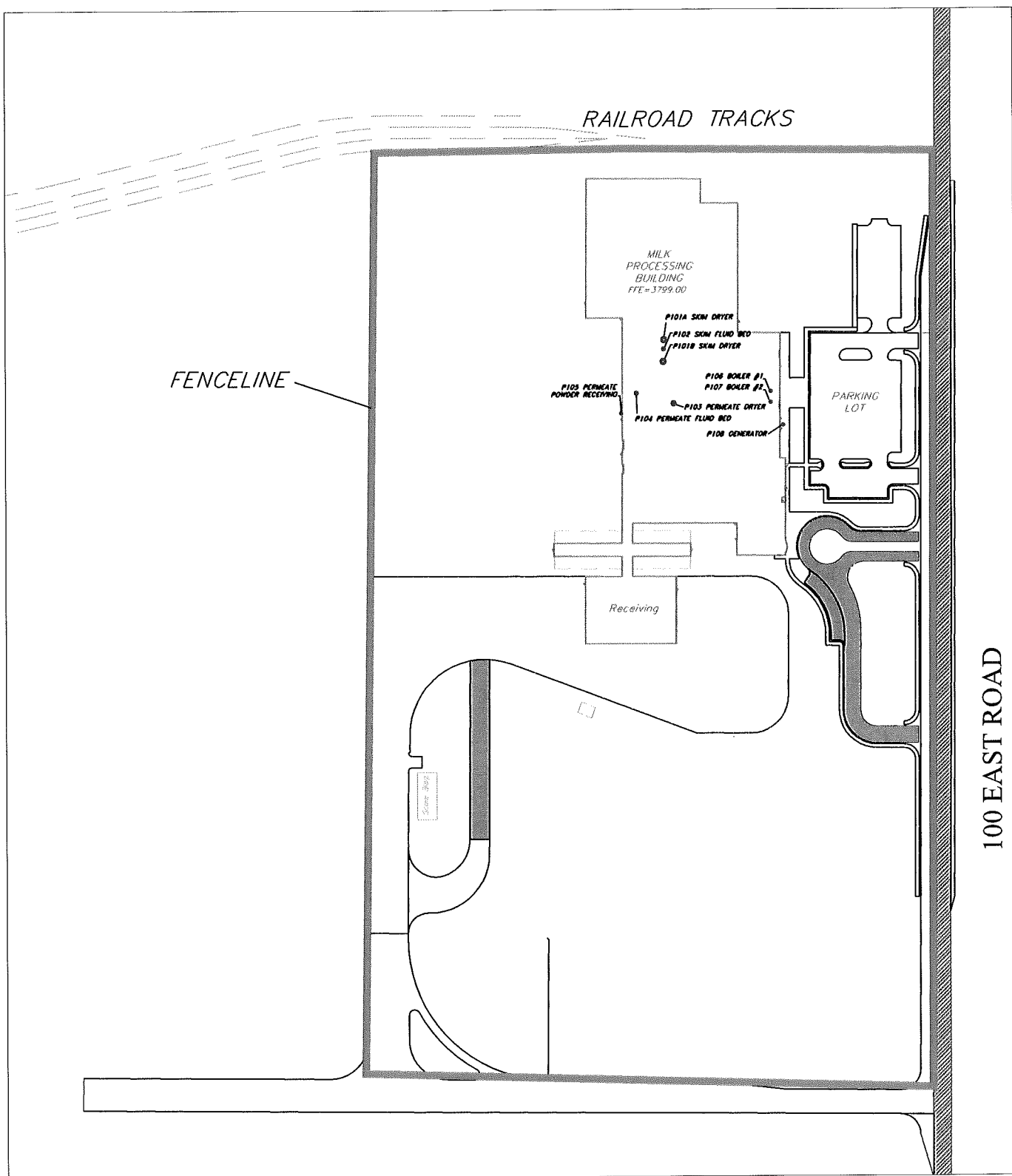
Revision 2
2/14/2007

Facility Name:	Milk Processing Plant
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Brief Project Description:	Construction of a new milk processing plant.
----------------------------	--

SUMMARY OF EMISSIONS INCREASE (PROPOSED PTE - PREVIOUSLY MODELED PTE) - FUGITIVE SOURCES

[illegible]



MSE Millennium Science & Engineering, Inc.

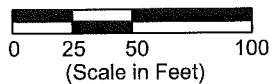
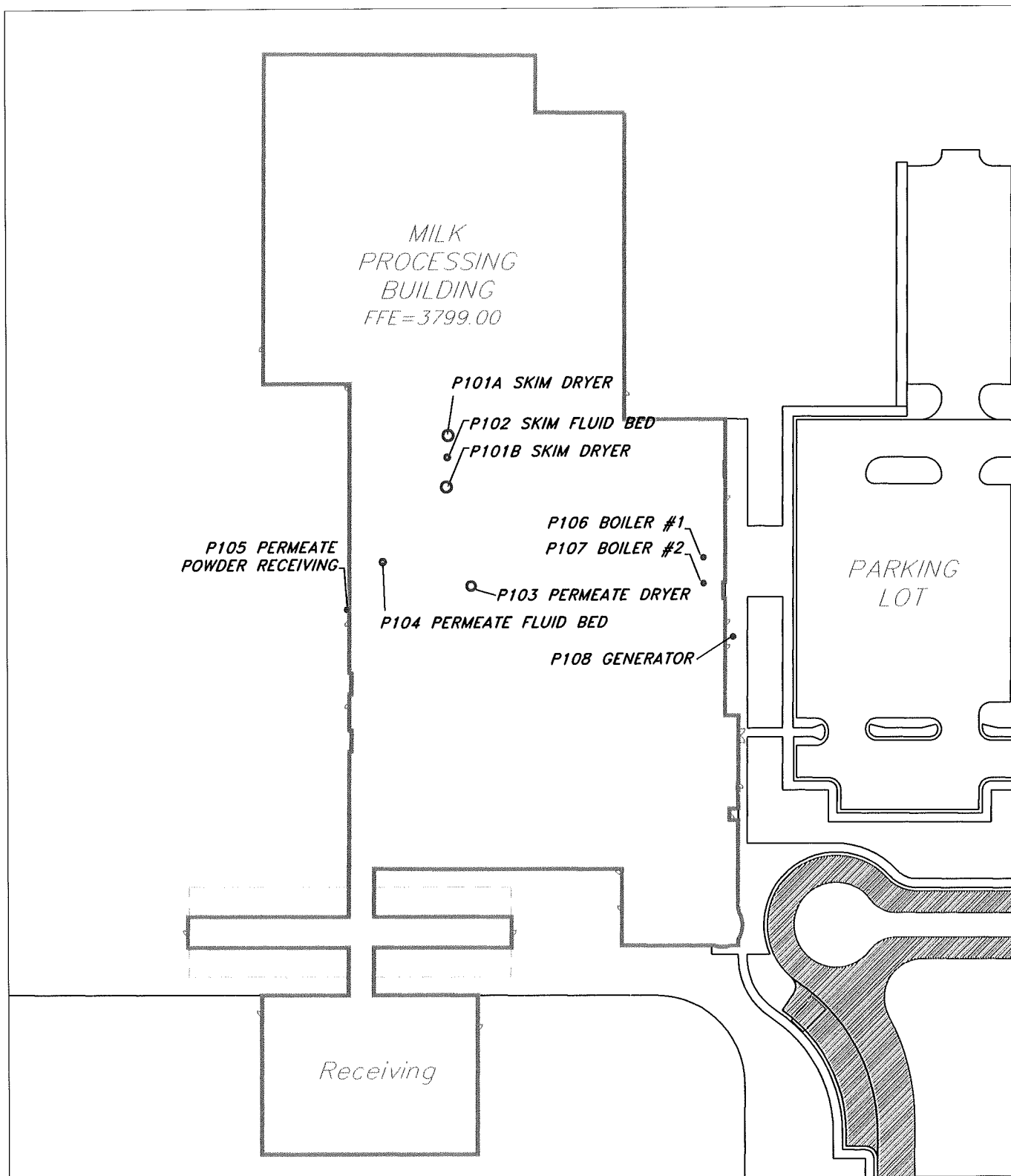
1605 North 13th Street
Boise, ID 83702
(208) 345-8292 (phone)
(208) 344-8007 (fax)

Site Map with Fenceline Location

Idaho Milk Products, Inc.
Jerome, Idaho

10-22-07

Figure 3



MSE Millennium Science & Engineering, Inc.

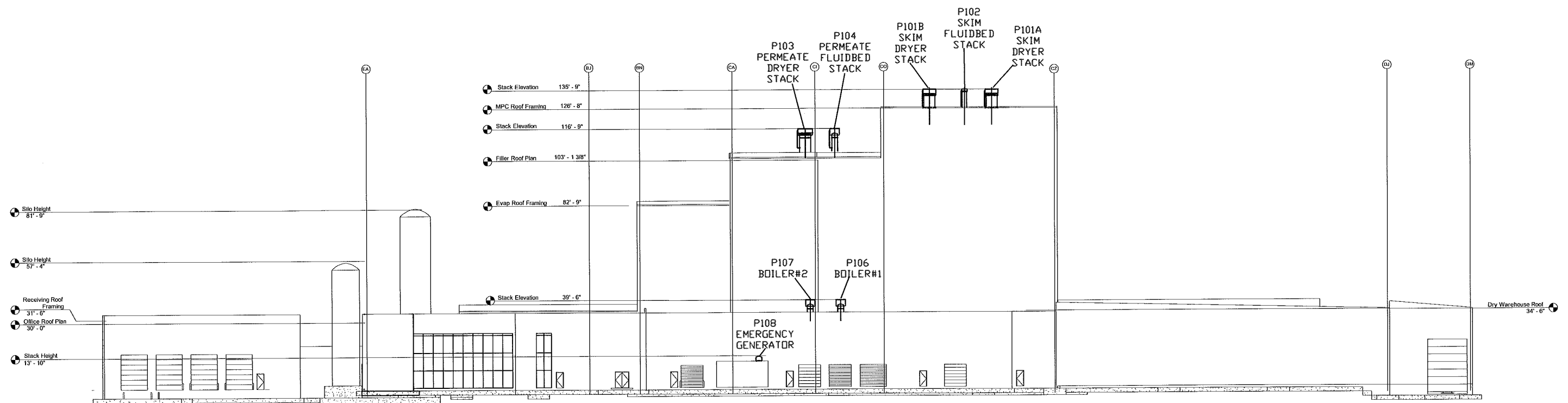
1605 North 13th Street
Boise, ID 83702
(208) 345-8292 (phone)
(208) 344-8007 (fax)

Building Plan View and Emission Point Locations

Idaho Milk Products, Inc.
Jerome, Idaho

10-22-07

Figure 4



MSE Millennium Science & Engineering, Inc.


1605 North 13th Street
Boise, ID 83702
(208) 345-8292 (phone)
(208) 344-8007 (fax)


East Elevation View

Idaho Milk Products, Inc.
Jerome, Idaho

10-22-07

Figure 5

	DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the Air Permit Hotline - 1-877-5PERMIT		PERMIT TO CONSTRUCT APPLICATION Revision 2 2/14/2007					
Company Name:		Idaho Milk Products						
Facility Name:		Milk Processing Plant						
Facility ID No.:								
Brief Project Description:		Construction of a new milk processing plant.						
<i>Please see instructions on next page before filling out the form.</i>								
SUMMARY OF AIR IMPACT ANALYSIS RESULTS - CRITERIA POLLUTANTS								
Criteria Pollutants	Averaging Period	1. Significant Impact Analysis Results ($\mu\text{g}/\text{m}^3$)	Significant Contribution Level ($\mu\text{g}/\text{m}^3$)	2. Full Impact Analysis Results ($\mu\text{g}/\text{m}^3$)	3. Background Concentration ($\mu\text{g}/\text{m}^3$)	4. Total Ambient Impact ($\mu\text{g}/\text{m}^3$)	NAAQS ($\mu\text{g}/\text{m}^3$)	5. Percent of NAAQS
PM ₁₀	24-hour	NA	5	62.90	81.00	143.90	150	96%
	Annual	NA	1	18.66	27.00	45.66	50	91%
SO ₂	3-hr	NA	25					
	24-hr	NA	5					
	Annual	NA	1					
NO ₂	Annual	NA	1	21.85	17.00	38.85	100	39%
CO	1-hr	NA	2000	488.76	3,600.00	4,088.76	40,000	10%
	8-hr	NA	500	197.02	2,300.00	2,497.02	10,000	25%

		DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the Air Permit Hotline - 1-877-5PERMIT		PERMIT TO CONSTRUCT APPLICATION Revision 2 2/14/2007						
Company Name:		Idaho Milk Products								
Facility Name:		Milk Processing Plant								
Facility ID No.:										
Brief Project Description:		Construction of a new milk processing plant.								
Please see instructions on next page before filling out the form.										
POINT SOURCE STACK PARAMETERS										
1.	2.	3a.	3b.	4.	5.	6.	7.	8.	9.	10.
Emissions units	Stack ID	UTM Easting (m)	UTM Northing (m)	Base Elevation (m)	Stack Height (m)	Modeled Diameter (m)	Stack Exit Temperature (K)	Stack Exit Flowrate (acfm)	Stack Exit Velocity (m/s)	Stack orientation (e.g., horizontal, rain cap)
Point Source(s)										
Skim Milk Dryer (P101)	P101A	#####	#####	1,157.90	41.38	1.75	360.93	63,500.00	12.42	Vertical
Skim Milk Dryer (P101)	P101B	#####	#####	1,157.90	41.38	1.75	360.93	63,500.00	12.42	Vertical
Skim Milk Fluid-Bed (P102)	P102	#####	#####	1,157.90	41.38	0.76	327.59	9,090.70	9.41	Vertical
Permeate Dryer (P103)	P103	#####	#####	1,157.90	35.58	1.98	317.59	52,463.00	8.03	Vertical
Permeate Fluid-Bed (P104)	P104	#####	#####	1,157.90	35.58	1.27	327.59	29,384.00	10.95	Vertical
Permeate Powder Receiver (P105)	P105	#####	#####	1,157.90	13.13	0.00			0.00	Horizontal
Boiler #1 (P106)	P106	#####	#####	1,157.90	12.04	1.24	449.82	10,389.00	4.03	Vertical
Boiler #2 (P107)	P107	#####	#####	1,157.90	12.04	1.24	449.82	10,389.00	4.03	Vertical
Emergency Generator (P108)	P108	#####	#####	1,157.90	4.22	0.81	533.15	3,399.00	3.08	Vertical
name of the emissions unit10										
name of the emissions unit11										
name of the emissions unit12										
name of the emissions unit13										
name of the emissions unit14										
name of the emissions unit15										
name of the emissions unit16										
name of the emissions unit17										
name of the emissions unit18										
name of the emissions unit19										
name of the emissions unit20										
name of the emissions unit21										
(insert more rows as needed)										



DEQ AIR QUALITY PROGRAM
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Company Name:	Idaho Milk Products
Facility Name:	Milk Processing Plant
Facility ID No.:	
Brief Project Description:	Construction of a new milk processing plant.

Please see instructions on next page before filling out the form.

1.	2.	3a.	3b.	4.	5.	6.	7.	8.	9.	10.
Emissions units	Stack ID	UTM Easting (m)	UTM Northing (m)	Base Elevation (m)	Release Height (m)	Easterly Length (m)	Northerly Length (m)	Angle from North (°)	Initial Vertical Dimension (m)	Initial Horizontal Dimension (m)

[illegible][illegible]



DEQ AIR QUALITY PROGRAM
1410 N. Hilton, Boise, ID 83706
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PERMIT TO CONSTRUCT APPLICATION

Revision 2
2/14/2007

Company Name: Idaho Milk Products

Facility Name: Milk Processing Plant

Facility ID No.:

Brief Project Description: Construction of a new milk processing plant.

Please see instructions on next page before filling out the form.

BUILDING AND STRUCTURE INFORMATION

1.	2.	3.	4.	5.	6.	7.
Building ID Number	Length (ft)	Width (ft)	Base Elevation (m)	Building Height (m)	Number of Tiers	Description/Comments
BLD 1	NA	13.91	1157.90	24.92	1	Circular building
BLD 2	NA	13.91	1157.90	24.92	1	Circular building
BLD 3	NA	13.91	1157.90	24.92	1	Circular building
BLD 4	NA	13.91	1157.90	24.92	1	Circular building
BLD 5	NA	13.91	1157.90	24.92	1	Circular building
BLD 6	NA	13.91	1157.90	24.92	1	Circular building
BLD 7	NA	13.91	1157.90	24.92	1	Circular building
BLD 8	NA	13.91	1157.90	24.92	1	Circular building
BLD 9	NA	13.91	1157.90	24.92	1	Circular building
BLD 10	NA	12.40	11.57.9	17.47	1	Circular building
BLD 11	NA	12.40	11.57.9	17.47	1	Circular building
BLD 12	NA	12.40	11.57.9	17.47	1	Circular building
BLD 13	NA	12.40	11.57.9	13.89	1	Circular building
BLD 14	NA	12.40	11.57.9	13.89	1	Circular building
BLD 15	Various	Various	11.57.9	9.60	1	Polygonal building
BLD 16	Various	Various	11.57.9	6.10	1	Polygonal building
BLD 17	Various	Various	11.57.9	3.40	1	Polygonal building
BLD 18	Various	Various	11.57.9	3.40	1	Polygonal building
BLD 19	109/79.5	92/92	11.57.9	31.43/38.61	2	Rectangular building
BLD 20	40.00	136.12	11.57.9	31.43	1	Rectangular building
BLD 21	42.32	72.00	11.57.9	25.22	1	Rectangular building
BLD 22	Various	Various	11.57.9	10.52	1	Polygonal building
BLD 23	23.16	8.33	11.57.9	3.66	1	Rectangular building



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PERMIT TO CONSTRUCT APPLICATION

Revision 2
 02/14/07

Please see instructions on page 2 before filling out the form.

IDENTIFICATION		
Company Name:	Facility Name:	Facility ID No:
Idaho Milk Products	Milk Processing Plant	
Brief Project Description: Construction of a new milk processing plant		
APPLICABILITY DETERMINATION		
1. Will this project be subject to 1990 CAA Section 112(g)? (Case-by-Case MACT)	<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES*	* If YES then applicant must submit an application for a case-by-case MACT determination [IAC 567 22-1(3)"b" (8)]
2. Will this project be subject to a New Source Performance Standard? (40 CFR part 60)	<input type="checkbox"/> NO <input checked="" type="checkbox"/> YES*	*If YES please identify sub-part: <u>Dc and IIII</u>
3. Will this project be subject to a MACT (<u>M</u> aximum <u>A</u> chievable <u>C</u> ontrol <u>T</u> echnology) regulation? (40 CFR part 63)	<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES*	*If YES please identify sub-part: _____
THIS ONLY APPLIES IF THE PROJECT EMITS A HAZARDOUS AIR POLLUTANT		
4. Will this project be subject to a NESHAP (<u>N</u> ational <u>E</u> mission <u>S</u> tandards for <u>H</u> azardous <u>A</u> ir <u>P</u> ollutants) regulation? (40 CFR part 61)	<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES*	*If YES please identify sub-part: _____
5. Will this project be subject to PSD (<u>P</u> revention of <u>S</u> ignificant <u>D</u> eterioration)? (40 CFR section 52.21)	<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES	
6. Was netting done for this project to avoid PSD?	<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES*	*If YES please attach netting calculations
IF YOU ARE UNSURE HOW TO ANSWER ANY OF THESE QUESTIONS, CALL THE AIR PERMIT HOTLINE AT 1-877-5PERMIT		